

**Abstract**

A radar system for motor vehicles (16), having a least one radar sensor (22, 24) having a range of less than 50 m for monitoring traffic in an adjacent lane (10, 14; 50), wherein the radar sensor (22, 24) has a phase-controlled antenna (36) and a control device (40, 42) for setting a plurality of radar lobes (26, 28; 30, 32; 26', 28[']; 44; 46, 48) having different geometries.

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(Figure 1)